

PROCEEDINGS
OF THE
CALIFORNIA ACADEMY OF SCIENCES
FOURTH SERIES

VOL. IV, pp. 1-13

APRIL 9, 1914

I.
REPORT OF THE PRESIDENT OF THE ACADEMY
FOR THE YEAR 1913.

MEMBERSHIP

The Academy now has a membership of 491. Of these 375 are Resident Members, 84 are Life Members, and 32 are Honorary Members.

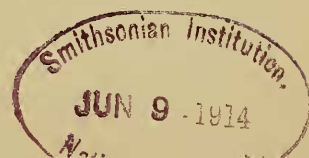
During the year, 144 new members were elected and qualified. By resignation the Academy lost 11 members, and by death the following eight:

R. M. Brereton, Woodstock, Oregon	Life Member
Hon. John P. Jones	Life Member
Henry C. Schaertzer, San Francisco	Resident Member
Herbert Brown, Tucson, Ari- zona	Resident Member
Andrew B. McCreery	Life Member
Dr. Wm. McMichael Wood- worth, Cambridge, Mass.	Life Member
Col. A. G. Hawes, San Fran- cisco	Life Member
Gen. L. H. Foote, San Fran- cisco	Life Member, and for many years an officer of the Academy

QUARTERS AND MEETINGS

The Academy is still housed in temporary quarters at 343 Sansome Street. It has held regular bimonthly meetings, and a good attendance at these meetings may be accepted as evi-

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dence of active interest in the Academy's affairs by its members.

As the business affairs of the Academy are in the hands of its Trustees, these stated meetings should be devoted primarily to the discussion of scientific subjects. This has been the case only to a limited extent since the Academy has been housed in temporary quarters. The time has now come when there should be a resumption of the old practice of giving those who are actively engaged in scientific work, whether within the Academy or without, frequent opportunity of presenting the results of their work in a more or less informal way to those who are interested. Some steps toward encouraging the use of the stated meetings for this purpose have already been taken; but the afternoon meetings are ill adapted for this purpose, and it is believed that it will be wise to return at an early day to the old practice of meeting in the evening.

The Academy has been accumulating a large amount of material in its temporary quarters. Most of this is for reference and study. At the present time the collection, together with the library, which has also assumed fair proportions, taxes the available floor-space nearly to its limit. The need of permanent and large quarters, and the need of a place in which exhibits for the benefit of the public may be installed, has been an ever-increasing one.

THE NEW MUSEUM BUILDING

The Academy was granted, by a vote of the people of San Francisco on November 15th, 1910, the right to erect a museum building in Golden Gate Park. Preparations to avail ourselves of this privilege have been under way for several years. The plans for a building have been finally accepted by the Academy, and have been approved by the Park Commissioners. Contracts have been awarded for the grading, the brick and concrete work, and the stone work required for the erection of the first unit of the proposed building. This first unit, consisting of a section of the main front of the building with two wings, of which one is to be used for research work, will cost about \$164,000.

Some evidence of the esteem in which the Academy is locally held may be found in the fact that the Building Committee of the Board of Supervisors of San Francisco declared its willingness to recommend that the Academy be granted the right to erect its museum building at the Civic Center, provided that satisfactory assurance could be given that our building would be completed in a reasonable number of years. Owing to the fact that our financial situation did not justify the giving of such an assurance, covering a possible total expenditure of from \$600,000 to \$800,000, this proposition could not be entertained, and the matter had to be dropped.

RESOURCES

The property of the Academy stands upon the books at a value of about \$1,300,000, subject to an indebtedness of \$300,000. The details of this book-value and of the annual income appear in the Treasurer's report.

It is interesting to note that the net annual income from the Academy's property on Market Street (the Commercial Building) is about \$46,700, and that from other sources, such as fees and dues, interest on special funds and short term loans, this income is swelled to about \$53,700.

The Academy has expended during the last year for rent, salaries, and on its collections, about \$32,700. The funds available for building have been increased by about \$21,000.

It is estimated that a sum of from \$125,000 to \$130,000 can be made available for the new building by the end of 1914, with some surplus for the installation of exhibits. This can be accomplished by continued exercise of economy, and by some curtailment of the Academy's activities, which under ordinary circumstances should be extended rather than curtailed. The additional funds required for the building will be advanced by the Crocker National Bank, a courteous act, which will be duly appreciated by the Academy.

DONATIONS AND BEQUESTS

The Academy has been the recipient of a number of donations, which have been recorded and suitably acknowledged

throughout the year; and I take this occasion of again expressing the Academy's appreciation of the kindness of these donors in doing their share toward enlarging the Academy's field of usefulness. The Academy is above all an educational institution. Through its collection of scientific material, through the work of its curators, and through the museum exhibits which it maintained before the fire, and which it will re-establish as soon as proper space is provided in the new building, it aims to disseminate knowledge of the world in which we live, and to provide material that would otherwise be beyond the reach of the individual student. That such material flows to the Academy from many sources is an evidence that this fact is appreciated.

During the year a bequest of books and pamphlets was made to the Academy by Dr. William McMichael Woodworth, formerly of California, but in recent years a resident of Cambridge, Mass. This bequest included 235 bound volumes and over 2000 unbound volumes and pamphlets.

ACTIVITIES

During the year which has just drawn to a close the Academy has been as active as circumstances would permit, both in the continuation of research work in various departments, and in the preparation of material for the museum, the building for which—at least so much of it as will be required for immediate needs—we may hope to see completed in Golden Gate Park within this year.

The activities of the Academy along scientific lines will be set forth in detail by the Curators of the various departments. While the Academy's effective work is perhaps best evidenced by the Academy's publications, much has been accomplished which is not found nor referred to in the published material, and which will bear brief notice here.

The Curators and their assistants have worked faithfully in the collection of new material, in the classification and arrangement of the material on hand, and in the publication of the results of the work done.

DEPARTMENT OF BOTANY

Miss Alice Eastwood, Curator of the Department of Botany, besides being active in her own department, has been serving also as Assistant Librarian, and has done much toward perfecting an orderly arrangement of the books and pamphlets which have been accumulating since the destruction, in 1906, of the Academy's original library. She has also proved a valuable aid to the Director of the Museum. She has made large personal collections during the year. The department has been enriched, too, by donations, among which that of L. E. Smith is notable. This consists of 2500 specimens representing 572 species of plants from Northern California. Other donors have added some 500 specimens to the botanical collection, representing nearly the same number of species.

The material collected for the herbarium last year, and much of that which had accumulated in preceding years, was mounted, and some 12,000 mounted specimens have now been made conveniently accessible. They fill seven cases, in which they are arranged according to the latest system. They are labeled, though not all as yet are specifically determined.

A feature of the botanical department is the Botanical Club, with a membership of about 50, which, under the leadership of Miss Eastwood, meets once a week, alternatively at the rooms of the Academy and on excursions.

DEPARTMENT OF HERPETOLOGY

In the Department of Herpetology, Dr. John Van Denburgh, Curator, and Joseph R. Slevin, Assistant Curator, have continued active. The collection has increased from about 28,000 to about 30,500 specimens. Exploration has added the bulk of the new material mainly from California, Nevada, and Utah, with some specimens from the Channel Islands and a few from Arizona. In this department, also, various donors have added to the collection.

The Curator and his assistants have completed the scientific work on the collections from the Galapagos Islands, and the results of the same appear as elsewhere noted in the publi-

cations of the Academy. They have also completed their studies of the collections from Arizona, and the results of these, too, have been published by the Academy during the year.

In this, as in the various other departments, the routine work of caring for the collection and of arranging the specimens has received attention, and the recording of the collection in the catalogue of the department has been brought up to date.

DEPARTMENT OF INVERTEBRATE PALEONTOLOGY

In the Department of Invertebrate Paleontology, Mr. F. M. Anderson, the Curator, and his Assistant, Mr. Bruce Martin, have devoted such time in the field as means would permit to regional studies of minor provinces of the Pacific Coast, with special reference to the Tertiary formations. The field work was extended by Mr. Martin from California into Oregon and Washington, and a large amount of valuable material was collected. Some 21,500 specimens representing about 700 species have been added to the Academy's collection.

The indoor work of the department has related to the preparation of material for publication and to the identification and arrangement of the specimens in the collection.

DEPARTMENT OF MAMMALOLOGY

In the Department of Mammalogy, under the direction of the Curator, Mr. John Rowley, assisted by Mr. A. E. Bolton, the work of collecting and preparing material for exhibition groups has been continued. There are now mounted and practically ready for installation nine groups, as follows:

Four seasonal groups of Blacktail Deer

One group each of:

California Mule Deer

San Joaquin Elk

Leopard Seal

Steller's Sea Lion

Mountain Lion

Groups of the California Sea Lion and of Antelope are also reported to be in an advanced stage of preparation.

The Academy has been liberal in its allotments for the work of this department during the last few years, because it is believed that no better displays can be made to popularize the Museum, and thereby call attention to the facilities for scientific study which the Academy affords.

It is to be added that the work which is being done by Mr. Rowley and his assistants is of an interesting character, and a visit to his laboratory in Berkeley, where the accumulating material is stored, is well worth while.

DEPARTMENT OF ORNITHOLOGY

The Academy's valuable collection of bird specimens is particularly rich in material pertaining to the Pacific Ocean. The collection has received the necessary attention by the Director of the Museum.

This department has furnished during the year one paper on the Birds of the Galapagos Islands by Mr. E. W. Gifford.

DEPARTMENT OF ENTOMOLOGY

In this department, the work of the year under the direction of Dr. E. C. Van Dyke, Curator, assisted by Mr. Chas. Fuchs, has consisted principally in mounting, classifying, and arranging the material brought in from time to time, as well as the material already on hand. This department, as is the case with other departments, has been in cramped quarters, and will benefit greatly by the improved facilities for work and storage which the new Museum building will afford.

The Curator did some collecting in Trinity County. He expresses his appreciation of the aid received from Mr. J. R. Slevin of the Department of Herpetology, and from Mr. Bruce Martin of the Department of Invertebrate Paleontology, the former of whom brought additions to the collection from Arizona, and the latter from Oregon and Washington.

PUBLICATIONS

Four papers have been published by the Academy. Two of these were issued as Parts VIII and IX of the series relating to the Expedition to the Galapagos Islands, and the other two are a continuation of Fourth Series, Vol. III, of the Proceedings, as follows :

Proceedings, Fourth Series, Volume II, Part I

Pages 1-132. VIII. The Birds of the Galapagos Islands, with Observations on the Birds of Cocos and Clipperton Islands (Columbiformes to Pelecaniformes), by Edward Winslow Gifford. Plates I-VII (*Issued Aug. 11, 1913*).

Pages 133-202. IX. The Galapagoan Lizards of the Genus *Tropidurus*; with Notes on the Iguanas of the Genera *Conolophus* and *Amblyrhynchus*. By John Van Denburgh and Joseph R. Slevin. Plates VIII-XI (*Issued Sept. 1913*).

Fourth Series, Volume III, Part I

Pages 265-360. A Distributional List of the Mammals of California. By Joseph Grinnell. Plates XV-XVI (*Issued August 28, 1913*).

Pages 391-454. A List of the Amphibians and Reptiles of Arizona, with Notes on the Species in the Collection of the Academy. By John Van Denburgh and Joseph R. Slevin. Plates XVII-XXVIII (*Issued November 5, 1913*).

The publication and distribution of these papers involved an expenditure of \$2527.13.

THE LIBRARY

The work which, during the past year, has been done on the part of the Library has brought good results. Some room on the shelves has been secured by packing in boxes and storing away a large number of books, pamphlets, and serials which are least likely to be in demand by those who avail themselves of our facilities for reference. The more important books and publications have been roughly classified and made conveniently accessible. The Librarian reports a healthy growth of the Library. The demands of the Curators for scientific works has been fairly well met, and there has been a fair increase through exchanges and complimentary sources, as well as by donations and by the Woodward be-

quest already referred to. It is expected that the Library will be gradually restored to full usefulness after it is properly housed in the new building.

THE SCHOONER "ACADEMY"

The Schooner "Academy," which carried the Academy's exploring expedition to the Galapagos Islands some years ago, has been sold. Upon the return of the expedition, the schooner was sent up to Martinez and cared for there at some expense for watchmen and annual repairs. As no further use for the vessel by the Academy was foreseen, an offer of purchase which was received during the year was accepted.

THE PRESENT SITUATION

The Academy is rapidly approaching a turning-point in its affairs. It will within a year have made suitable provision for the housing of its valuable collections, and will extend its activities in a larger field of usefulness. It has already collected much material for pictorial groups of mammals; the installation of these groups, together with a variety of miscellaneous material, will speedily follow the completion of the new building. The Academy will then be brought into closer touch with the public than it has been for some years, and new and larger responsibilities will fall upon the officers. These responsibilities your officers ask the members one and all to share with them by hearty co-operation in their endeavor to maintain the Academy as a dignified and truly useful institution.

C. E. GRUNSKY
President